



the hallicrafters co.

MANUFACTURERS OF RADIO AND TELEPHONE EQUIPMENT, CHICAGO 30, U. S. A.

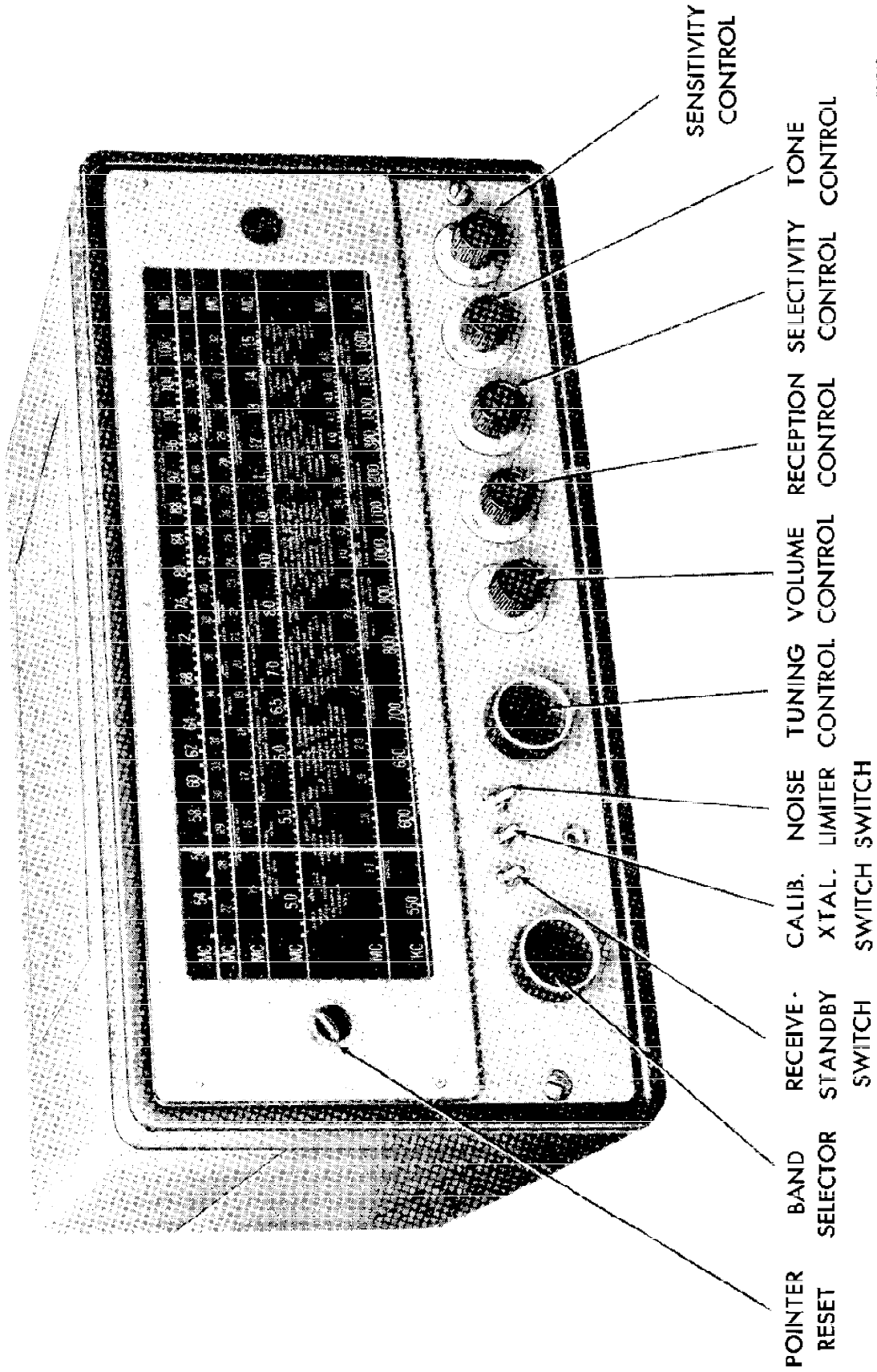
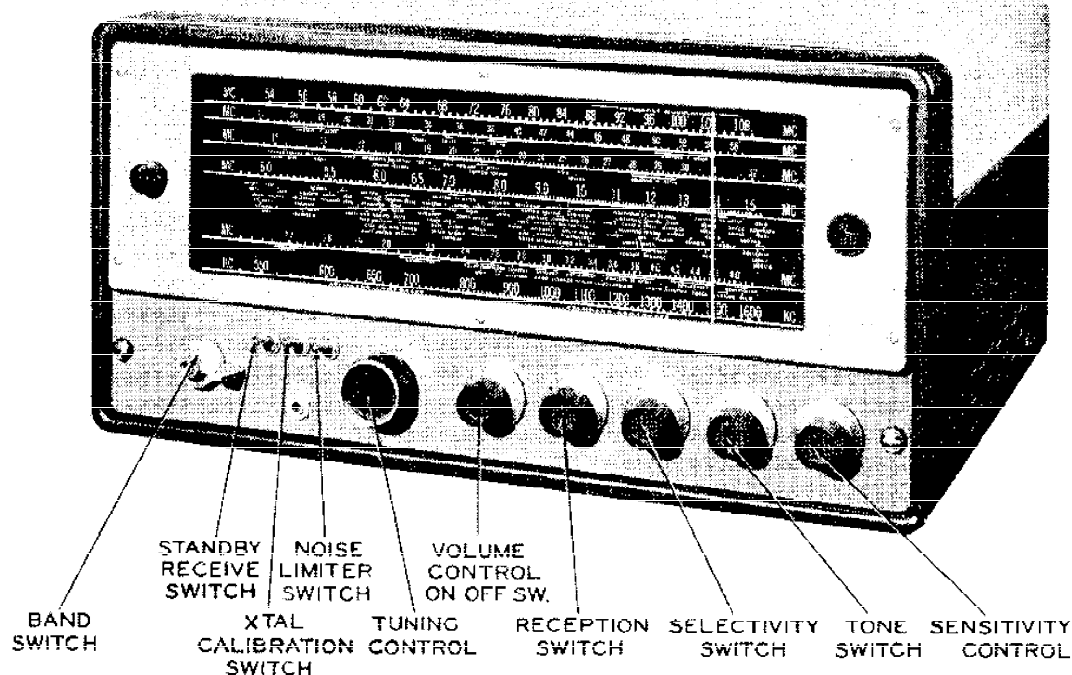


Fig. 1. Radio Receiver Model SX-62/62U



HALLICRAFTERS MODEL SX-62

TRADE NAME Hallcrafters, Model SX-62

MANUFACTURER The Hallcrafters Co., 5th & Kostner Avenues, Chicago 24, Illinois

TYPE SET AC Operated Multi-Band AM-FM Superheterodyne Receiver

TUBES(SIXTEEN) Types 6CA XTAL Calib. Osc., 6AC5 1st RF Amp., 6AC5 2nd RF Amp., 7F0 Converter, 6SR7 1st IF Amp., 6SR7 2nd IF Amp., 7E7 3rd IF Amp., 7H7 4th IF Amp.-AM DET-AVC, 6H6 Discriminator, 7A4 CW Beat Osc. 6H6 Noise Limiter, 6SL7GT AF-Phase Inv. (2) 6V6GT Power Output, CDS/VR 150 Voltage Regulator, 5Y4G Rectifier

POWER SUPPLY 105-125 Volts AC RATING .98 Amp., @ 117 Volts AC

TUNING RANGE Band #1 550-1620KC, Band#2 1.62-1.9MC, Band#3 4.2-15MC, Band#4 15-82MC, Band#5 27-56MC AM-FM, Band#6 54-100MC AM-FM.

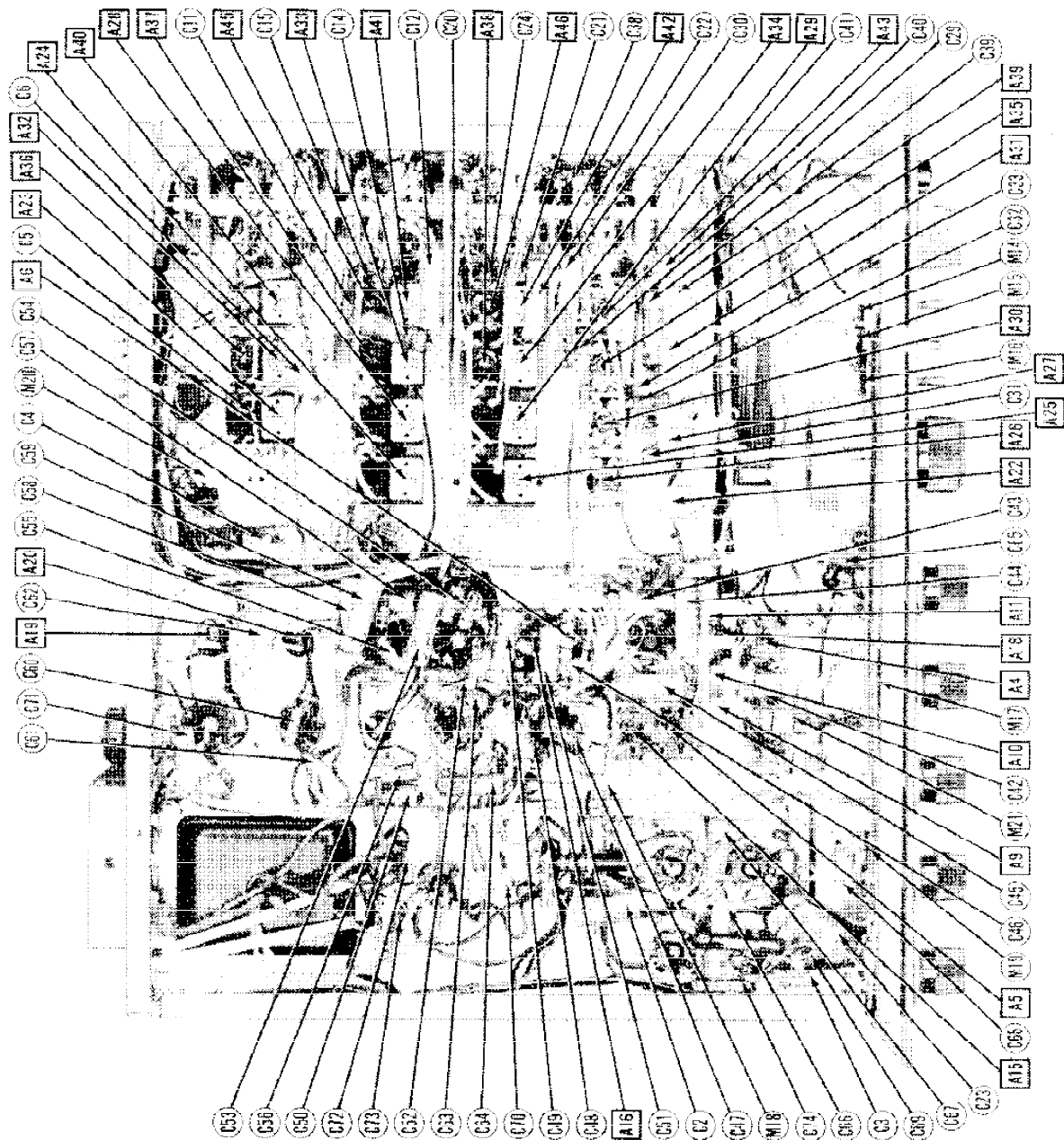
**HALLICRAFTERS
MODEL SX-62**

HOWARD W. SAMS & CO., INC. • Indianapolis Indiana

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PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		U.S. ORG. PART No.	STANDARD REPLACEMENT	SYN. BASE TYPE	
V1	XTAL Oscillator	854	624	610	
V2	1st AF Amp.	648	648	7ED	
V3	2nd AF Amp.	648	648	7ED	
V4	Converter	718	648	648	
V5	1st IF Amp.	687	687	687	
V6	2nd IF Amp.	687	687	687	
V7	3rd IF Amp.	717	717	687	
V8	4th IF Amp.	717	717	687	
V9	Detector	617	617	617	
V10	Detector	617	617	617	
V11	Detector	617	617	617	
V12	Detector	617	617	617	
V13	Detector	617	617	617	
V14	Detector	617	617	617	
V15	Detector	617	617	617	
V16	Detector	617	617	617	
V17	Detector	617	617	617	
V18	Detector	617	617	617	
V19	Detector	617	617	617	
V20	Detector	617	617	617	
V21	Detector	617	617	617	
V22	Detector	617	617	617	
V23	Detector	617	617	617	
V24	Detector	617	617	617	
V25	Detector	617	617	617	
V26	Detector	617	617	617	
V27	Detector	617	617	617	
V28	Detector	617	617	617	
V29	Detector	617	617	617	
V30	Detector	617	617	617	
V31	Detector	617	617	617	
V32	Detector	617	617	617	
V33	Detector	617	617	617	
V34	Detector	617	617	617	
V35	Detector	617	617	617	
V36	Detector	617	617	617	
V37	Detector	617	617	617	
V38	Detector	617	617	617	
V39	Detector	617	617	617	
V40	Detector	617	617	617	
V41	Detector	617	617	617	
V42	Detector	617	617	617	
V43	Detector	617	617	617	
V44	Detector	617	617	617	
V45	Detector	617	617	617	
V46	Detector	617	617	617	
V47	Detector	617	617	617	
V48	Detector	617	617	617	
V49	Detector	617	617	617	
V50	Detector	617	617	617	
V51	Detector	617	617	617	
V52	Detector	617	617	617	
V53	Detector	617	617	617	
V54	Detector	617	617	617	
V55	Detector	617	617	617	
V56	Detector	617	617	617	
V57	Detector	617	617	617	
V58	Detector	617	617	617	
V59	Detector	617	617	617	
V60	Detector	617	617	617	
V61	Detector	617	617	617	
V62	Detector	617	617	617	
V63	Detector	617	617	617	
V64	Detector	617	617	617	
V65	Detector	617	617	617	
V66	Detector	617	617	617	
V67	Detector	617	617	617	
V68	Detector	617	617	617	
V69	Detector	617	617	617	
V70	Detector	617	617	617	
V71	Detector	617	617	617	
V72	Detector	617	617	617	
V73	Detector	617	617	617	
V74	Detector	617	617	617	
V75	Detector	617	617	617	
V76	Detector	617	617	617	
V77	Detector	617	617	617	
V78	Detector	617	617	617	
V79	Detector	617	617	617	
V80	Detector	617	617	617	
V81	Detector	617	617	617	
V82	Detector	617	617	617	
V83	Detector	617	617	617	
V84	Detector	617	617	617	
V85	Detector	617	617	617	
V86	Detector	617	617	617	
V87	Detector	617	617	617	
V88	Detector	617	617	617	
V89	Detector	617	617	617	
V90	Detector	617	617	617	
V91	Detector	617	617	617	
V92	Detector	617	617	617	
V93	Detector	617	617	617	
V94	Detector	617	617	617	
V95	Detector	617	617	617	
V96	Detector	617	617	617	
V97	Detector	617	617	617	
V98	Detector	617	617	617	
V99	Detector	617	617	617	
V100	Detector	617	617	617	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors

ITEM No.	RATING CAP. VOLT	FALL CRAFT PART No.	REPLACEMENT DATA			IDENTIFICATION CODES
			AEROVONC PART No.	CONEL PART No.	SOLE PART No.	
C1	20	450	450444A	450444A	450444A	1st IF Coupling
C2	20	450	450444A	450444A	450444A	2nd IF Coupling
C3	20	450	450444A	450444A	450444A	3rd IF Coupling
C4	20	450	450444A	450444A	450444A	4th IF Coupling
C5	20	450	450444A	450444A	450444A	5th IF Coupling
C6	20	450	450444A	450444A	450444A	6th IF Coupling
C7	20	450	450444A	450444A	450444A	7th IF Coupling
C8	20	450	450444A	450444A	450444A	8th IF Coupling
C9	20	450	450444A	450444A	450444A	9th IF Coupling
C10	20	450	450444A	450444A	450444A	10th IF Coupling
C11	20	450	450444A	450444A	450444A	11th IF Coupling
C12	20	450	450444A	450444A	450444A	12th IF Coupling
C13	20	450	450444A	450444A	450444A	13th IF Coupling
C14	20	450	450444A	450444A	450444A	14th IF Coupling
C15	20	450	450444A	450444A	450444A	15th IF Coupling
C16	20	450	450444A	450444A	450444A	16th IF Coupling
C17	20	450	450444A	450444A	450444A	17th IF Coupling
C18	20	450	450444A	450444A	450444A	18th IF Coupling
C19	20	450	450444A	450444A	450444A	19th IF Coupling
C20	20	450	450444A	450444A	450444A	20th IF Coupling
C21	20	450	450444A	450444A	450444A	21st IF Coupling
C22	20	450	450444A	450444A	450444A	22nd IF Coupling
C23	20	450	450444A	450444A	450444A	23rd IF Coupling
C24	20	450	450444A	450444A	450444A	24th IF Coupling
C25	20	450	450444A	450444A	450444A	25th IF Coupling
C26	20	450	450444A	450444A	450444A	26th IF Coupling
C27	20	450	450444A	450444A	450444A	27th IF Coupling
C28	20	450	450444A	450444A	450444A	28th IF Coupling
C29	20	450	450444A	450444A	450444A	29th IF Coupling
C30	20	450	450444A	450444A	450444A	30th IF Coupling
C31	20	450	450444A	450444A	450444A	31st IF Coupling
C32	20	450	450444A	450444A	450444A	32nd IF Coupling
C33	20	450	450444A	450444A	450444A	33rd IF Coupling
C34	20	450	450444A	450444A	450444A	34th IF Coupling
C35	20	450	450444A	450444A	450444A	35th IF Coupling
C36	20	450	450444A	450444A	450444A	36th IF Coupling
C37	20	450	450444A	450444A	450444A	37th IF Coupling
C38	20	450	450444A	450444A	450444A	38th IF Coupling
C39	20	450	450444A	450444A	450444A	39th IF Coupling
C40	20	450	450444A	450444A	450444A	40th IF Coupling
C41	20	450	450444A	450444A	450444A	41st IF Coupling
C42	20	450	450444A	450444A	450444A	42nd IF Coupling
C43	20	450	450444A	450444A	450444A	43rd IF Coupling
C44	20	450	450444A	450444A	450444A	44th IF Coupling
C45	20	450	450444A	450444A	450444A	45th IF Coupling
C46	20	450	450444A	450444A	450444A	46th IF Coupling
C47	20	450	450444A	450444A	450444A	47th IF Coupling
C48	20	450	450444A	450444A	450444A	48th IF Coupling
C49	20	450	450444A	450444A	450444A	49th IF Coupling
C50	20	450	450444A	450444A	450444A	50th IF Coupling
C51	20	450	450444A	450444A	450444A	51st IF Coupling
C52	20	450	450444A	450444A	450444A	52nd IF Coupling
C53	20	450	450444A	450444A	450444A	53rd IF Coupling
C54	20	450	450444A	450444A	450444A	54th IF Coupling
C55	20	450	450444A	450444A	450444A	55th IF Coupling
C56	20	450	450444A	450444A	450444A	56th IF Coupling
C57	20	450	450444A	450444A	450444A	57th IF Coupling
C58	20	450	450444A	450444A	450444A	58th IF Coupling
C59	20	450	450444A	450444A	450444A	59th IF Coupling
C60	20	450	450444A	450444A	450444A	60th IF Coupling
C61	20	450	450444A	450444A	450444A	61st IF Coupling
C62	20	450	450444A	450444A	450444A	62nd IF Coupling
C63	20	450	450444A	450444A	450444A	63rd IF Coupling
C64	20	450	450444A	450444A	450444A	64th IF Coupling
C65	20	450	450444A	450444A	450444A	65th IF Coupling
C66	20	450	450444A	450444A	450444A	66th IF Coupling
C67	20	450	450444A	450444A	450444A	67th IF Coupling
C68	20	450	450444A	450444A	450444A	68th IF Coupling
C69	20	450	450444A	450444A	450444A	69th IF Coupling
C70	20	450	450444A	450444A	450444A	70th IF Coupling
C71	20	450	450444A	450444A	450444A	71st IF Coupling
C72	20	450	450444A	450444A	450444A	72nd IF Coupling
C73	20	450	450444A	450444A	450444A	73rd IF Coupling
C74	20	450	450444A	450444A	450444A	74th IF Coupling
C75	20	450	450444A	450444A	450444A	75th IF Coupling
C76	20	450	450444A	450444A	450444A	76th IF Coupling
C77	20	450	450444A	450444A	450444A	77th IF Coupling
C78	20	450	450444A	450444A	450444A	78th IF Coupling
C79	20	450	450444A	450444A	450444A	79th IF Coupling
C80	20	450	450444A	450444A	450444A	80th IF Coupling
C81	20	450	450444A	450444A	450444A	81st IF Coupling
C82	20	450	450444A	450444A	450444A	82nd IF Coupling
C83	20	450	450444A	450444A	450444A	83rd IF Coupling
C84	20	450	450444A	450444A	450444A	84th IF Coupling
C85	20	450	450444A	450444A	450444A	85th IF Coupling
C86	20	450	450444A	450444A	450444A	86th IF Coupling
C87	20	450	450444A	450444A	450444A	87th IF Coupling
C88	20	450	450444A	450444A	450444A	88th IF Coupling
C89	20	450	450444A	450444A	450444A	89th IF Coupling
C90	20	450	450444A	450444A	450444A	90th IF Coupling
C91	20	450	450444A	450444A	450444A	91st IF Coupling
C92	20	450	450444A	450444A	450444A	92nd IF Coupling
C93	20	450	450444A	450444A	450444A	93rd IF Coupling
C94	20	450	450444A	450444A	450444A	94th IF Coupling
C95	20	450	450444A	450444A	450444A	95th IF Coupling
C96	20	450	450444A	450444A	450444A	96th IF Coupling
C97	20	450	450444A	450444A	450444A	97th IF Coupling
C98	20	450	450444A	450444A	450444A	98th IF Coupling
C99	20	450	450444A	450444A	450444A	99th IF Coupling
C100	20	450	450444A	450444A	450444A	100th IF Coupling

PART'S LIST AND DESCRIPTIONS (Continued)

ITEM No.	BAYING		BALLISTICS		AEROVOX		TEMPERATURE DATA		SFRAGUE		IDENTIFICATION CODES INSTALLATION NOTES
	CAR.	TOTAL	PART No.	PART No.	PART No.	PART No.	ERIE PART No.	SOLAR PART No.	PART No.		
244	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
245	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
246	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
247	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
248	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
249	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
250	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
251	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
252	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
253	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
254	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
255	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
256	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
257	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
258	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
259	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
260	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
261	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
262	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
263	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
264	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
265	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
266	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
267	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
268	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
269	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
270	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
271	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
272	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
273	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	
274	00	437X753	038-12	075-32	038-12	075-32	038-12	075-32	038-12	IP Screen Bypass	

Two 1000 sections connected in parallel.
Note: 1000 sections connected in parallel.

CONTROLS

ITEM NO.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESISTANCE	WATTS	PART NO.	IPC PART NO.	CLAPOSTAT PART NO.	
1	3445	F	256-449	210-137	168-53	Volume control
2	3445	F	256-449	210-137	168-53	Volume control
3	3445	F	256-449	210-137	168-53	Volume control
4	3445	F	256-449	210-137	168-53	Volume control
5	3445	F	256-449	210-137	168-53	Volume control
6	3445	F	256-449	210-137	168-53	Volume control
7	3445	F	256-449	210-137	168-53	Volume control
8	3445	F	256-449	210-137	168-53	Volume control
9	3445	F	256-449	210-137	168-53	Volume control
10	3445	F	256-449	210-137	168-53	Volume control
11	3445	F	256-449	210-137	168-53	Volume control
12	3445	F	256-449	210-137	168-53	Volume control
13	3445	F	256-449	210-137	168-53	Volume control
14	3445	F	256-449	210-137	168-53	Volume control
15	3445	F	256-449	210-137	168-53	Volume control
16	3445	F	256-449	210-137	168-53	Volume control
17	3445	F	256-449	210-137	168-53	Volume control
18	3445	F	256-449	210-137	168-53	Volume control
19	3445	F	256-449	210-137	168-53	Volume control
20	3445	F	256-449	210-137	168-53	Volume control
21	3445	F	256-449	210-137	168-53	Volume control
22	3445	F	256-449	210-137	168-53	Volume control
23	3445	F	256-449	210-137	168-53	Volume control
24	3445	F	256-449	210-137	168-53	Volume control
25	3445	F	256-449	210-137	168-53	Volume control
26	3445	F	256-449	210-137	168-53	Volume control
27	3445	F	256-449	210-137	168-53	Volume control
28	3445	F	256-449	210-137	168-53	Volume control
29	3445	F	256-449	210-137	168-53	Volume control
30	3445	F	256-449	210-137	168-53	Volume control
31	3445	F	256-449	210-137	168-53	Volume control
32	3445	F	256-449	210-137	168-53	Volume control
33	3445	F	256-449	210-137	168-53	Volume control
34	3445	F	256-449	210-137	168-53	Volume control
35	3445	F	256-449	210-137	168-53	Volume control
36	3445	F	256-449	210-137	168-53	Volume control
37	3445	F	256-449	210-137	168-53	Volume control
38	3445	F	256-449	210-137	168-53	Volume control
39	3445	F	256-449	210-137	168-53	Volume control
40	3445	F	256-449	210-137	168-53	Volume control
41	3445	F	256-449	210-137	168-53	Volume control
42	3445	F	256-449	210-137	168-53	Volume control
43	3445	F	256-449	210-137	168-53	Volume control
44	3445	F	256-449	210-137	168-53	Volume control
45	3445	F	256-449	210-137	168-53	Volume control
46	3445	F	256-449	210-137	168-53	Volume control
47	3445	F	256-449	210-137	168-53	Volume control
48	3445	F	256-449	210-137	168-53	Volume control
49	3445	F	256-449	210-137	168-53	Volume control
50	3445	F	256-449	210-137	168-53	Volume control
51	3445	F	256-449	210-137	168-53	Volume control
52	3445	F	256-449	210-137	168-53	Volume control
53	3445	F	256-449	210-137	168-53	Volume control
54	3445	F	256-449	210-137	168-53	Volume control
55	3445	F	256-449	210-137	168-53	Volume control
56	3445	F	256-449	210-137	168-53	Volume control
57	3445	F	256-449	210-137	168-53	Volume control
58	3445	F	256-449	210-137	168-53	Volume control
59	3445	F	256-449	210-137	168-53	Volume control
60	3445	F	256-449	210-137	168-53	Volume control
61	3445	F	256-449	210-137	168-53	Volume control
62	3445	F	256-449	210-137	168-53	Volume control
63	3445	F	256-449	210-137	168-53	Volume control
64	3445	F	256-449	210-137	168-53	Volume control
65	3445	F	256-449	210-137	168-53	Volume control
66	3445	F	256-449	210-137	168-53	Volume control
67	3445	F	256-449	210-137	168-53	Volume control
68	3445	F	256-449	210-137	168-53	Volume control
69	3445	F	256-449	210-137	168-53	Volume control
70	3445	F	256-449	210-137	168-53	Volume control
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72	3445	F	256-449	210-137	168-53	Volume control
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88	3445	F	256-449	210-137	168-53	Volume control
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181	3445	F	256-449	210-137	168-53	Volume control
182	3445	F	256-449	210-137	168-53	Volume control
183	3445	F</				

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		HALL-CRAFTERS	IRCT PART No.	
43	4.7 Meg.	RC204127K	RTS-4.7 Meg.	YI-VI-Crpt.
44	470K	RC204141K	RTS-470K	Crystal Oscillator Grid
45	27K	RC2041427K	RTS-27K	Crystal Oscillator Plate Drop
46	100K	RC204143K	RTS-100K	Crystal Oscillator Plate Drop
47	100K	RC204144M	RTS-100K	Ant. Coil Hunt
48	150K	RC204150M	RTS-150K	Parasitic Suppressor
49	150K	RC204150K	RTS-150K	1st RF Cathode
50	150K	RC204151K	RTS-150K	RF Coil - Hunt
51	150K	RC204150M	RTS-150K	1st RF Decoupling
52	150K	RC204151K	RTS-150K	1st RF Decoupling
53	150K	RC204152K	RTS-150K	Parasitic Suppressor
54	150K	RC204153K	RTS-150K	Ant. Network
55	150K	RC204154K	RTS-150K	" "
56	150K	RC204155K	RTS-150K	" "
57	150K	RC204156K	RTS-150K	RF Coil - Hunt
58	150K	RC204157K	RTS-150K	1st RF Decoupling
59	150K	RC204158K	RTS-150K	1st RF Cathode
60	150K	RC204159K	RTS-150K	2nd RF Cathode
61	150K	RC204160K	RTS-150K	Parasitic Suppressor
62	150K	RC204161K	RTS-150K	1st RF Decoupling
63	150K	RC204162K	RTS-150K	2nd RF Decoupling
64	150K	RC204163K	RTS-150K	Vol. Reg. Inverter
65	150K	RC204164K	RTS-150K	1st RF Plate Decoupling
66	150K	RC204165K	RTS-150K	Parasitic Suppressor
67	150K	RC204166K	RTS-150K	2nd RF Decoupling
68	150K	RC204167K	RTS-150K	1st RF Decoupling
69	150K	RC204168K	RTS-150K	2nd RF Decoupling
70	150K	RC204169K	RTS-150K	1st RF Decoupling
71	150K	RC204170K	RTS-150K	2nd RF Decoupling
72	150K	RC204171K	RTS-150K	1st RF Decoupling
73	150K	RC204172K	RTS-150K	2nd RF Decoupling
74	150K	RC204173K	RTS-150K	1st RF Decoupling
75	150K	RC204174K	RTS-150K	2nd RF Decoupling
76	150K	RC204175K	RTS-150K	1st RF Decoupling
77	150K	RC204176K	RTS-150K	2nd RF Decoupling
78	150K	RC204177K	RTS-150K	1st RF Decoupling
79	150K	RC204178K	RTS-150K	2nd RF Decoupling
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82	150K	RC204181K	RTS-150K	1st RF Decoupling
83	150K	RC204182K	RTS-150K	2nd RF Decoupling
84	150K	RC204183K	RTS-150K	1st RF Decoupling
85	150K	RC204184K	RTS-150K	2nd RF Decoupling
86	150K	RC204185K	RTS-150K	1st RF Decoupling
87	150K	RC204186K	RTS-150K	2nd RF Decoupling
88	150K	RC204187K	RTS-150K	1st RF Decoupling
89	150K	RC204188K	RTS-150K	2nd RF Decoupling
90	150K	RC204189K	RTS-150K	1st RF Decoupling
91	150K	RC204190K	RTS-150K	2nd RF Decoupling
92	150K	RC204191K	RTS-150K	1st RF Decoupling
93	150K	RC204192K	RTS-150K	2nd RF Decoupling
94	150K	RC204193K	RTS-150K	1st RF Decoupling
95	150K	RC204194K	RTS-150K	2nd RF Decoupling
96	150K	RC204195K	RTS-150K	1st RF Decoupling
97	150K	RC204196K	RTS-150K	2nd RF Decoupling
98	150K	RC204197K	RTS-150K	1st RF Decoupling
99	150K	RC204198K	RTS-150K	2nd RF Decoupling
100	150K	RC204199K	RTS-150K	1st RF Decoupling

PARTS LIST AND DESCRIPTIONS (Continued)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI	SEC. 1	SEC. 2	SEC. 3	HALL CRAFTERS PART No.	STAN COE PART No.	CHICAGO FARI No	MERIT PART No
TTLA	179AC	S80VAC	SVAC	C-3VAJ	S2014 *	P-6214 *	FH-20C *	
	CTG	SA	4.7A					
P	DLE/220				S2015I			
	NIS/220							
	B-25/200							
	C2014B							

TRANSFORMER (OUTPUT)

ALL REQUESTS TO REMOVE OR REDUCE PLATE NO. TAG.

ITEM NO.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE PRI.	SEC.	DC RES. PRI.	THRU SEC.	EXPL.- CHARTING PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.	
12	8000 27	6000 27	1400 27	8700 27	5510/77				

FILTER CHOKE

ITEM NO.	RATINGS		REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL D.C. CURRENT	D.C. RESISTANCE	INDUCTANCE (CURRENT 1000 A)	WILLIAMS CURRENT PART NO.	STANCO PART No.	CHICA-GO PART No.	
11	1.080A	2.992	1.75	54E1667	0.1709	R-2150F C-22934	# 1-11) See

RF COILS

ITEM No.	USE	DC RES.		REPLACEMENT DATA		MEISSNER PART NO.
		RE	SIC	SWITCHES PART NO.	PAIR NO.	
2	Ant. Coil	02		51B929		Band 5
3	Ant. Coil	02		51B928		Band 5
4	Ant. Coil	02		51B940		Band 5
5	Ant. Coil	02		51B926		Band 5
6	Ant. Coil	22		51B925		Band 5
7	1st RF Coil	02		51B935		Band 5
8	1st RF Coil	02		51B932		Band 5
9	1st RF Coil	02		51B939		Band 5
10	1st RF Coil	02		51B947		Band 5
11	Ant. Coil	02		51B925		Band 5
12	1st RF Coil	22		51B924		Band 1
13	1st RF Coil	02		374117		wound on 2300 res.
14	F5 Screen	02		374117		wound on 5500 res.
15	2nd RF Coil	02		51B935		Band 5
16	2nd RF Coil	02		51B944		Band 5
17	2nd RF Coil	12		51B949		Band 5
18	2nd RF Coil	22		51B968		Band 5
19	1st RF Coil	12		51B966		Band 2
20	2nd RF Coil	12		51B965		Band 2
21	OSC. Coil	02		51B939		Band 6
22	OSC. Coil	02		51B938		Band 5
23	OSC. Coil	02		51B931		Band 4
24	OSC. Coil	22		51B936		Band 3
25	OSC. Coil	02		51B935		Band 2
26	OSC. Coil	02		51B934		Band 1
27	RF Plate	02		8350008		
28	F11 Choke	22		824009		
29	FM 2c IF	12		900386		
30	AN 1st IF	12		900386		
31	FM 2nd IF	12		900386		
32	FM 2nd IF	12		900386		
33	FM 2nd IF	12		900386		
34	FM 2nd IF	12		900386		
35	FM 2nd IF	12		900386		
36	FM 2nd IF	12		900386		
37	FM 2nd IF	12		900386		
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96	FM 2nd IF	12		900386		
97	FM 2nd IF	12		900386		
98	FM 2nd IF	12		900386		
99	FM 2nd IF	12		900386		
100	FM 2nd IF	12		900386		

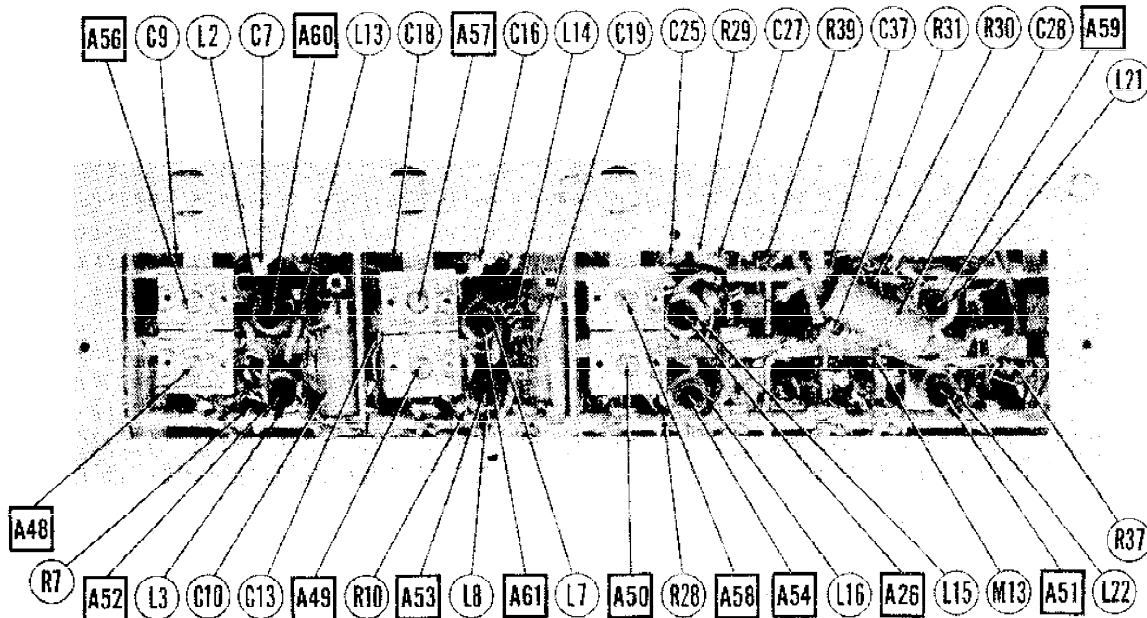
PARTS LIST AND DESCRIPTIONS (Continued)

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		NOTES
				BEAD COLOR	REPLACEMENT PART No.	
101	Bayonet	6-8V	0.05A	Blue		Type #54
102						

MISCELLANEOUS

ITEM No.	PART NAME	REPLACEMENT PART No.	NOTES
103	SWITCH	604130	604130
104	"	604130	604130
105	"	604130	604130
106	"	604130	604130
107	"	604130	604130
108	"	604130	604130
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ALIGNMENT INSTRUCTIONS

IF ALIGNMENT

Pre-set the front panel controls as follows:							
Receive/standby	Receive	Signal generator	Off	Volume	Near Maximum	Reception	AM
Calibration	Off	Signal generator	Off	Volume	Near Maximum	Reception	AM
Noise Limiter	Off	Signal generator	Off	Volume	Near Maximum	Reception	AM
Volume	Near Maximum	Signal generator	Off	Volume	Near Maximum	Reception	AM
Reception	AM	Signal generator	Off	Volume	Near Maximum	Reception	AM
Selectivity	Normal/Sharp	Signal generator	Off	Volume	Near Maximum	Reception	AM
Sensitivity	Near Maximum	Signal generator	Off	Volume	Near Maximum	Reception	AM
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .1MFD	High side to Pin 1 (Grid) 7F8 (V4). Low side to chassis	455KC	Band 1	1000KC	Across voice coil	A1, A2 A3, A4 A5, A6	Adjust for maximum output.
2. Set reception switch at "CW" and adjust A7 for 100% note.							
3. Set selectivity control to crystal/broad. Turn A4 slowly in one direction across the resonant setting obtained above and "rock" the signal generator observing the dip in the output meter reading. The correct setting of A4 is in center of the observed dip. Set the signal generator at the weaker of the two peaks obtained on either side of zero beat and adjust A8 (crystal phasing trimmer) for the null.							
4. Set selectivity control to crystal/sharp and A9 near minimum capacity. Slowly increase its capacity while "rocking" the signal generator and adjust for maximum output. It may be necessary to reduce the signal generator input and the receiver sensitivity to prevent overloading. After peaking A9, turn it in until a 2 db. drop in output occurs.							
5. Tune signal generator to the exact crystal frequency and note output meter reading. Set selectivity control to crystal/broad position and note the drop in output reading. Switch to crystal/medium position and with A10 pre-set near minimum capacity, slowly increase its capacity, while "rocking" the signal generator, until output meter reads half way between output readings obtained in the sharp crystal and broad crystal positions.							
6. Set reception switch to "AM" and the selectivity control to crystal/sharp and set signal generator to the exact crystal frequency. Switch to normal/sharp position and reset A1, A2, A3, A5, A6, and A11 for maximum output.							
7. Set reception switch to "CW" and adjust A7 for zero beat.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
8. .1MFD	High side to Pin 1 (Grid) 7F8 (V4). Low side to chassis.	10.7MC (AM)	Band 5	Mid scale	Across voice coil	A12, A13, A14, A15, A16	Adjust for maximum output.
9. .1MFD	"	"	"	"	"	A17, A18	Adjust for maximum output. DO NOT RE-ADJUST A12 thru A16.
10. Remove 400C modulation and set reception control to "CW". Adjust A19 for zero beat.							
11. Add 400C modulation, turn reception control to "AM" and adjust A20 for maximum output.							
12. Adjust A21 for the null or minimum indication on the output meter. Slowly tune signal generator thru 10.7MC and note the two maximum readings on the output meter. If the peaks are equal, the discriminator transformer is properly aligned. If not, it may be necessary to readjust A20 until reasonable balance is obtained.							
Connect signal generator high side thru RMA dummy in A-1 on antenna terminal strip and place a jumper across the "A-2" and "GND" terminals. Use only enough signal from generator to give a 500 milliwatt output reading for best results. The RMA dummy antenna consists of a 200MMF capacitor in series with a 200H. RF choke which is shunted by a 400MMF capacitor in series with a 400C carbon resistor.							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
13. RMA Dummy	High side to "A-1" on Ant. terminal strip. Low side to chassis.	1500KC	Band 1	1500KC	Across voice coil	A22, A23, A24, A25, A26	Adjust for maximum output.
14. RMA Dummy	"	600KC	"	600KC	"	A27, A28, A29, A30	" " " " " "
15. RMA Dummy	"	4.5MC	Band 2	4.5MC	"	A31, A32, A33, A34	" " " " " "
16. RMA Dummy	"	2.0MC	"	2.0MC	"	A35, A36, A37, A38	" " " " " "
17. RMA Dummy	"	14.0MC	Band 3	14.0MC	"	A39, A40, A41, A42	" " " " " "
18. RMA Dummy	"	7.0MC	"	7.0MC	"	A43, A44, A45, A46	" " " " " "
19. RMA Dummy	"	28.0MC	Band 4	28.0MC	"	A47, A48, A49, A50	" " " " " "
20. RMA Dummy	"	10.0MC	"	10.0MC	"	A51, A52, A53, A54	" " " " " "
21. 300C carbon res.	High side thru 300C to "A-1". Low side to chassis.	50.0MC	Band 5	50.0MC	"	A55, A56, A57, A58	" " " " " "
22. 300C carbon res.	"	30.0MC	"	30.0MC	"	A59, A60, A61, A62	" " " " " "
23. 300C carbon res.	"	105MC	Band 6	105MC	"	A63, A64, A65, A66	" " " " " "
24. 300C carbon res.	"	60MC	"	60MC	"	A67, A68, A69, A70	" " " " " "

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	02VDC	0V	0V	6.8VAC	02VDC	-1.4VDC	0V	
2	6AR5	0V	1.6VDC	0V	6.8VAC	025VDC	100VDC	1.6VDC	
3	6AR5	-1.1VDC	1.6VDC	0V	6.8VAC	040VDC	116VDC	1.6VDC	
4	7A2	-2VDC	0V	8.8VDC	1VDC	0V	125VDC	8.8VAC	2-2.4VDC
5	6SK7	0V	6.8VAC	0V	0V	8.8VDC	100VDC	0V	240VDC
6	6C4	0V	6.8VAC	8.8VDC	0V	8.8VDC	140VDC	0V	240VDC
7	7A2	0V	220VDC	200VDC	0V	0V	0V	7.0VAC	6.8VDC
8	7A2	0V	50VDC	50VDC	0V	0V	-1.5VDC	0V	6.8VAC
9	6AR5	0V	0V	-0.7VDC	1.8VDC	-1.8VDC	0V	6.8VAC	0V
10	6A4	0V	100VDC	0V	0V	0V	16.5VDC	240VDC	6.8VAC
11	6AR5	0V	0V	-1.1VDC	1.8VDC	0V	-1.2VDC	1.8VAC	0V
12	6C4	0V	0VDC	0VDC	0V	0VDC	0VDC	0.8VAC	0V
13	6V6GT	0V	0V	020VDC	240VDC	0V	0V	6.8VAC	14.0VDC
14	6V6GT	0V	0V	220VDC	240VDC	0V	0V	6.8VAC	14.5VDC
15	CD5/VR-100	14.5VDC	0V	150VDC	0V	150VDC	0V	1.5VDC	0V
16	6A4	0V	220VDC	0V	220VAC	0V	220VAC	220VDC	220VDC

‡ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

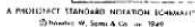
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	*500KΩ	0Ω	0Ω	.2Ω	*500KΩ	4.7 Meg.	0Ω	
2	6AR5	2. Meg.	Inf.	0Ω	.2Ω	*5.5KΩ	*3.5KΩ	170Ω	
3	6AR5	1.8Meg.	Inf.	0Ω	.2Ω	*1.2KΩ	*47KΩ	170Ω	
4	7A2	2.2 Meg.	0Ω	*70KΩ	100Ω	0Ω	*25Ω	.2Ω	10KΩ
5	6SK7	0Ω	.2Ω	0Ω	4.2 KΩ	27Ω	*60KΩ	0Ω	*1.5KΩ
6	6C4	0Ω	.2Ω	33KΩ	2.8 Meg.	53Ω	60KΩ	0Ω	*1.5KΩ
7	7A2	0Ω	*11KΩ	*50KΩ	0Ω	0Ω	2.2 Meg.	1.0KΩ	.2Ω
8	7A2	0Ω	*50 KΩ	*50KΩ	0Ω	0Ω	240KΩ	0Ω	.2Ω
9	6AR5	0Ω	0Ω	150KΩ	200KΩ	100KΩ	Inf.	.2Ω	0Ω
10	7A2	0Ω	*100KΩ	10Ω	Inf.	Inf.	14Ω	12Ω	.2Ω
11	6C4	0Ω	0Ω	2.2Meg.	1.2 Meg.	Inf.	150Ω	2.3Ω	100KΩ
12	6C4	1 Meg.	*220KΩ	1.5KΩ	8.2KΩ	*220KΩ	1.2KΩ	.2Ω	0Ω
13	6V6GT	0Ω	0Ω	*220Ω	*25Ω	200KΩ	10KΩ	.2Ω	200Ω
14	6V6GT	0Ω	0Ω	*250Ω	*25Ω	200KΩ	150Ω	.2Ω	200Ω
15	CD5/VR-100	*2.2KΩ	0Ω	*2.2KΩ	220KΩ	*2.2KΩ	Inf.	*2.2KΩ	Inf.
16	6A4	Inf.	50KΩ	Inf.	0Ω	Inf.	20Ω	45KΩ	50KΩ

‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.

* Measured from pin 5 of V16 (6C4).

† Taken in band 2 position.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	02VDC	0V	0V	6.8VAC	02VDC	-1.4VDC	0V	
2	6AR5	0V	1.6VDC	0V	6.8VAC	025VDC	100VDC	1.6VDC	
3	6AR5	-1.1VDC	1.6VDC	0V	6.8VAC	040VDC	116VDC	1.6VDC	
4	7A2	-2VDC	0V	8.8VDC	1VDC	0V	125VDC	8.8VAC	2-2.4VDC
5	6SK7	0V	6.8VAC	0V	0V	8.8VDC	100VDC	0V	240VDC
6	6C47	0V	6.8VAC	8.8VDC	0V	8.8VDC	140VDC	0V	240VDC
7	7A2	0V	220VDC	200VDC	0V	0V	0V	7.0VAC	6.8VAC
8	7A2	0V	50VDC	50VDC	0V	0V	-1.5VDC	0V	6.8VAC
9	6AR5	0V	0V	-0.7VDC	1.8VDC	-1.8VDC	0V	6.8VAC	0V
10	6A4	0V	100VDC	0V	0V	0V	16.5VDC	240VDC	6.8VAC
11	6AR5	0V	0V	-1.1VDC	1.8VDC	0V	-1.2VDC	1.8VAC	0V
12	6C47	0V	0VDC	0VDC	0V	0VDC	0VDC	0.8VAC	0V
13	6V6GT	0V	0V	020VDC	240VDC	0V	0V	6.8VAC	14.0VDC
14	6V6GT	0V	0V	220VDC	240VDC	0V	0V	6.8VAC	14.5VDC
15	CD5/VR-100	14.5VDC	0V	150VDC	0V	150VDC	0V	1.5VDC	0V
16	6A4	0V	220VDC	0V	220VDC	0V	220VDC	220VDC	220VDC

‡ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

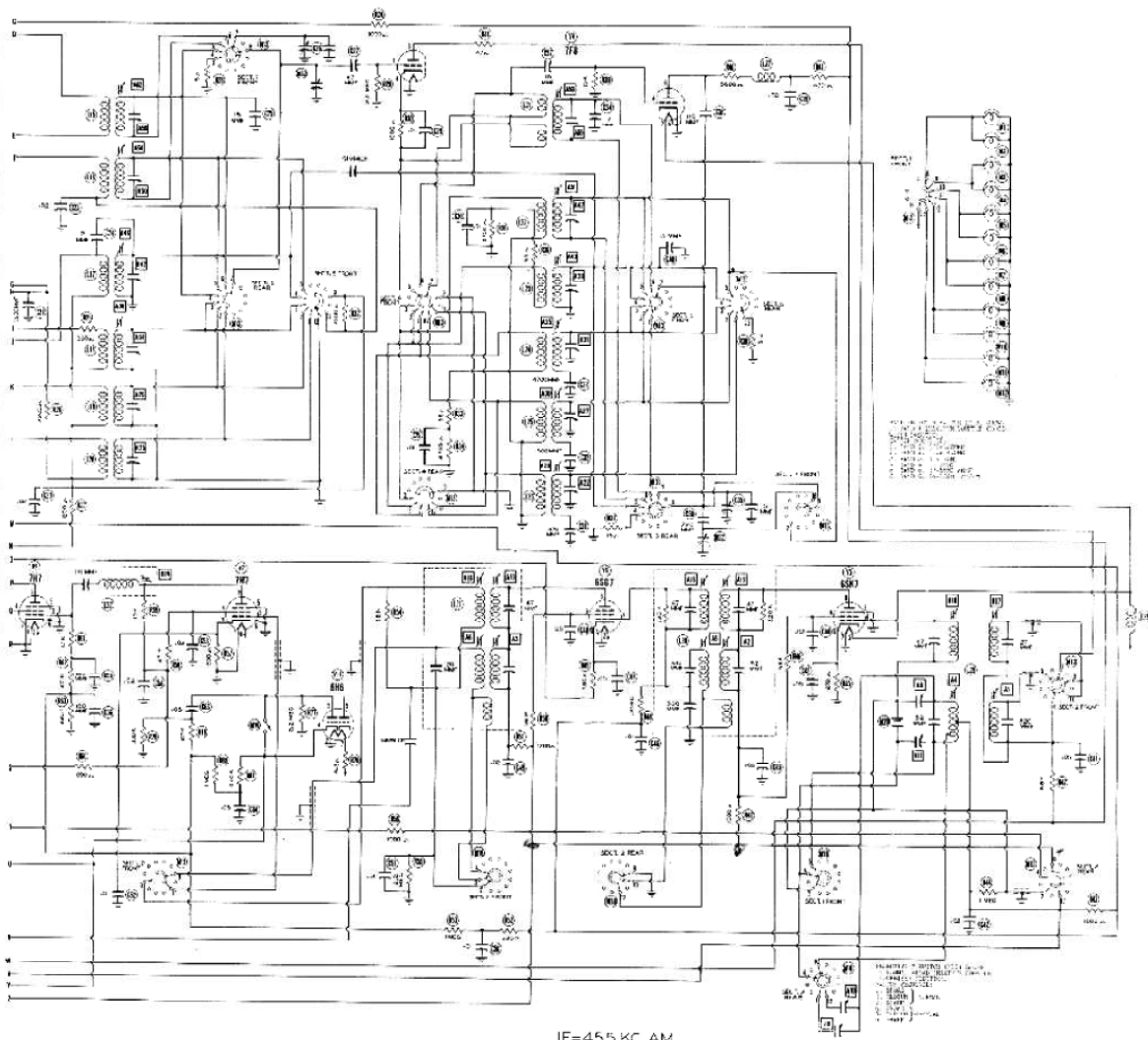
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6A4	450KΩ	0Ω	0Ω	2Ω	500KΩ	4.7 Meg.	0Ω	
2	6AC5	2. Meg.	Inf.	0Ω	2Ω	45.5KΩ	4.5KΩ	170Ω	
3	6AR5	1.8Meg.	Inf.	0Ω	2Ω	41.2KΩ	47KΩ	170Ω	
4	7A2	2.2 Meg.	0Ω	400KΩ	100Ω	0Ω	22Ω	10Ω	
5	6SK7	0Ω	2Ω	0Ω	4.2 Meg.	27Ω	400Ω	0Ω	41.5KΩ
6	6C47	0Ω	2Ω	330Ω	2.8 Meg.	53Ω	60Ω	0Ω	41.5KΩ
7	7A2	0Ω	41KΩ	450KΩ	0Ω	0Ω	2.2 Meg.	1.0KΩ	2Ω
8	7A2	0Ω	45KΩ	45KΩ	0Ω	0Ω	240KΩ	0Ω	2Ω
9	6AR5	0Ω	0Ω	150KΩ	200KΩ	100KΩ	Inf.	2Ω	0Ω
10	7A2	0Ω	410KΩ	19Ω	Inf.	Inf.	45Ω	4Ω	2Ω
11	6C4	0Ω	0Ω	2.2Meg.	1.2 Meg.	Inf.	150Ω	2.3Ω	470Ω
12	6C47GT	1 Meg.	420KΩ	1.3KΩ	8.2KΩ	22KΩ	1.2KΩ	2Ω	0Ω
13	6V6GT	0Ω	0Ω	420Ω	420Ω	200KΩ	10KΩ	2Ω	200Ω
14	6V6GT	0Ω	0Ω	430Ω	420Ω	200KΩ	150Ω	2Ω	200Ω
15	CD5/VR-100	4.2KΩ	0Ω	42.2KΩ	220KΩ	42.2KΩ	Inf.	42.2KΩ	Inf.
16	6A4	Inf.	50KΩ	Inf.	60KΩ	Inf.	20Ω	45KΩ	50KΩ

‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.

* Measured from pin 5 of V16 (6U4).

† Taken in band 2 position.

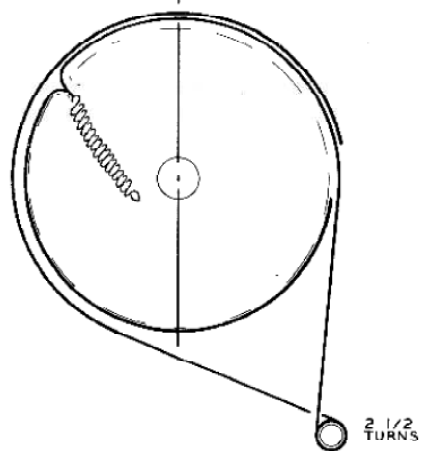
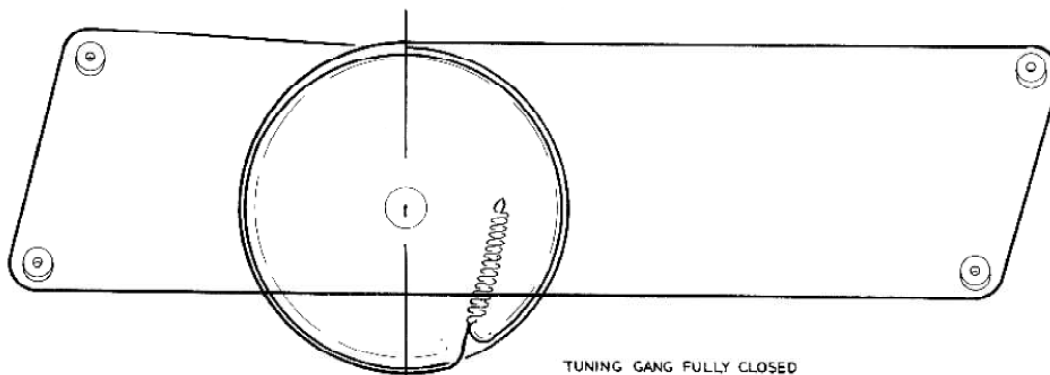
1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.
2. Socket connections are shown as bottom views.
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6. Volume control at maximum, no signal applied for voltage measurements.



IF=455 KC AM
IF=0.7 MC FM

A 10-070621 CHANGE INSTRUCTION SCHEMATIC
1. CHANGE R 500K 2. TO 50K

499-12



DIAL CORD DRIVE